10

What is claimed is:

1. A method for transmitting and receiving wireless data comprising the steps of:

establishing a catalog of information related to an application data service;

adding header information by referring to the established catalog, and error detecting codes to application data; and

deciphering a header when data errors are detected by the error detecting codes added to the application data, and transmitting the application data to an upper ranking layer according to a quality of service if the deciphered value of the header belongs to the determined catalog.

- 2. The method of claim 1, wherein the header information of each layer is added to the application data.
- 3. The method of claim 1, wherein deciphering the header occurs while receiving the data.
- 4. A method for transmitting wireless data comprising the steps of:

establishing a catalog of information related to an application data service;

establishing a payload, including the application data, and adding header information about the application data by referring to the established catalog; and

10

adding error detecting codes to the payload, and performing channel-coding.

5. A method for receiving wireless data in a wireless data system including a catalog of information related to an application data service, comprising the steps of:

determining data errors in each layer using error detecting codes added to received data after channel-decoding the received data;

deciphering header information in each layer when data errors are detected;

transmitting data to an upper ranking layer according to the quality of service if the header information deciphered in each layer belongs to the catalog; and

decoding the transmitted data.

- 6. The method of claim 1, wherein the error detecting codes are added in a physical layer.
- 7. The method of claim 2, wherein the error detecting codes are added in a physical layer.
- 8. The method of claim 3, wherein the error detecting codes are added in a physical layer.

- 9. The method of claim 4, wherein the error detecting codes are added in a physical layer.
- 10. The method of claim 1, wherein the catalog is established during a previous transmission/reception of application data, said catalog includes data information related to RLP and MUX sub layers.
- 11. The method of claim 2, wherein the catalog is established during a previous transmission/reception of application data, said catalog includes data information related to RLP and MUX sub layers.
- 12. The method of claim 3, wherein the catalog is established during a previous transmission/reception of application data, said catalog includes data information related to RLP and MUX sub layers.
- 13. The method of claim 4, wherein the catalog is established during a previous transmission/reception of application data, said catalog includes data information related to RLP and MUX sub layers.
- 14. The method of claim 5, wherein the catalog is established during a previous transmission/reception of application data, said catalog includes data information related to RLP and MUX sub layers.
- 15. The method of claim 1, wherein the catalog is established during a previous transmission/reception of application data, said catalog includes information related to the quality of service.

- 16. The method of claim 2, wherein the catalog is established during a previous transmission/reception of application data, said catalog includes information related to the quality of service.
- 17. The method of claim 3, wherein the catalog is established during a previous transmission/reception of application data, said catalog includes information related to the quality of service.
- 18. The method of claim 4, wherein the catalog is established during a previous transmission/reception of application data, said catalog includes information related to the quality of service.
- 19. The method of claim 5, wherein the catalog is established during a previous transmission/reception of application data, said catalog includes information related to the quality of service.
- 20. The method of claim 15, wherein the information related to the quality of service is a delay time value of the transmitted data or an error generation probability value of the transmitted data.
- 21. The method of claim 16, wherein the information related to the quality of service is a delay time value of the transmitted data or an error generation probability value of the transmitted data.

- 22. The method of claim 17, wherein the information related to the quality of service is a delay time value of the transmitted data or an error generation probability value of the transmitted data.
- 23. The method of claim 18, wherein the information related to the quality of service is a delay time value of the transmitted data or an error generation probability value of the transmitted data.
- 24. The method of claim 19, wherein the information related to the quality of service is a delay time value of the transmitted data or an error generation probability value of the transmitted data.
- 25. The method of claim 1, further comprising a step of signaling null data to the upper ranking layer, if the header information deciphered in each layer does not exist in the catalog.
- 26. The method of claim 2, further comprising a step of signaling null data to the upper ranking layer, if the header information deciphered in each layer does not exist in the catalog.
- 27. The method of claim 3, further comprising a step of signaling null data to the upper ranking layer, if the header information deciphered in each layer does not exist in the catalog.

- 28. The method of claim 5, further comprising a step of signaling null data to the upper ranking layer, if the header information deciphered in each layer does not exist in the catalog.
- 29. The method of claim 1, further comprising a step of applying a predetermined standard of judgement according to a quality of service or a decoder of the application layer, when the data is transmitted to the upper ranking layer.
- 30. The method of claim 2, further comprising a step of applying a predetermined standard of judgement according to a quality of service or a decoder of the application layer, when the data is transmitted to the upper ranking layer.
- 31. The method of claim 3, further comprising a step of applying a predetermined standard of judgement according to a quality of service or a decoder of the application layer, when the data is transmitted to the upper ranking layer.
- 32. The method of claim 5, further comprising a step of applying a predetermined standard of judgement according to a quality of service or a decoder of the application layer, when the data is transmitted to the upper ranking layer.

- 33. The method of claim 29, wherein the predetermined standard of judgement is decided by referring to cyclic redundancy code (CRC) information calculated in a physical layer, header fields of each layer, and an initially established data service catalog.
- 34. The method of claim 30, wherein the predetermined standard of judgement is decided by referring to cyclic redundancy code (CRC) information calculated in a physical layer, header fields of each layer, and an initially established data service catalog.
- 35. The method of claim 31, wherein the predetermined standard of judgement is decided by referring to cyclic redundancy code (CRC) information calculated in a physical layer, header fields of each layer, and an initially established data service catalog.
- 36. The method of claim 29, wherein the predetermined standard of judgement is decided according to the possibility of an error correction determined in the header fields.
- 37. The method of claim 30, wherein the predetermined standard of judgement is decided according to the possibility of an error correction determined in the header fields.

5

10

- 38. The method of claim 31, wherein the predetermined standard of judgement is decided according to the possibility of an error correction determined in the header fields.
- 39. An apparatus for transmitting and/or receiving wireless data comprising:

transmitting means for establishing a catalog of information related to an application data service, adding header information of each protocol layer by referring to a catalog, adding error detecting codes to the application data, and transmitting the application data, including the header information and the error detecting codes; and

receiving means for deciphering a header if data errors are detected by the error detecting codes of the application data received from the transmitting means, and decoding the data according to a quality of service if the deciphered value belongs to the established catalog.